

Work Order ID 148460***148460***

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June 30, 2016 2:49:44 PM

Item ID: D3713-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Lid Assembly
Start Date: 7/8/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 7/25/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: SU Date: 7/4/16 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3713	Rev B								
100	Large Fab	0.00							
100									
Large Fab	Memo	0.62							
Large Fab	1- drill holes in both D3715-1 as per dwg D3715 2- deburr 3- assemble as per dwg D3713 and weld as per QSI004								
110	Large Fab	0.00							
110									
Large Fab	Memo	0.00							
Large Fab	1- cut mesh as per dwg D3743 2- weld mesh as per dwg D3713								
120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC	Memo	0.00							
Quality Control									

16-07-26C. J.16-7-2616-07-26

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐						
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval				
Description Work Order Deviation			Disposition					
						Completed By		
						Lead hand / Supervisor Approval Verification		
						QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY						
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____						
Misidentified ☐	Past Due ☐							

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 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	QC9- Inspect visual per QSI004- Fusion Welds	0.00							
130									
QC	Memo	0.00							
Quality Control									
140	Black Sandtex(Ref:4.3.5.7) per QSI005 4.3	0.00							
140									
Powdercoat	Memo	0.07							
Powder Coating	START TIME: 8:00 OVEN TEMPERATURE: 300° FINISH TIME: 8:20								
150	QC3- Inspect Part Finish	0.00							
150									
QC	Memo	0.00							
Quality Control									

① 16-07-26 PD

1 16-07-27 34 9-89

16-07-28 15 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
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Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			OTHER : ☐																	

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Approvals: Process Plan: Date: Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	HandFinishing	0.00							
160	HandFinish	0.17							
Hand Finishing	Memo								
	1-Apply Wing Walk on mesh as per Dwg D3713 and QSI 005 4.4								
	Batch: <u>M134948</u>								
	2-Apply Clear coat over label on lid only								
	<u>B135207</u>								
170	QC3- Inspect Part Finish	0.00							
170	QC	0.00							
Quality Control	Memo								
180	Identify as per dwg & Stock Location: <u>w6</u>	0.00							
180	Packaging	0.00							
Packaging	Memo								

0205-641045 / B148456 12 f ll 16/02/20

DAS 41 9-89 16-7-28

DAS 38 9-89 JUL 29 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

DQA: _____ Date: _____



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Root Cause			FAULT CATEGORY								
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
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Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

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1 48460

D3713-041

Required Date: 7/25/2016

Required Qty: 1.00

Comments: IPP Rev:A new issue 08-01-30 DD verified by:EC
IPP Rev:B change to revB ecn 1145 08-03-19 DD verified by:EC IPP Rev:C
add label DD 10.03.23 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2327-1		Manufactured	No			100	Each	22.0000	2	2			
D2327-1													
Spacer Bushing													
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				WA004				22					
				144389				22					
D2329		Manufactured	No			100	Each	13.0000	1	1			
D2329													
Label Plate													
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				WA004				13					
				102848				9					
				79357				2					
				84714				2					
D2581		Manufactured	No			100	Each	54.0000	2	2			
D2581													
Mounting Bracket													
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				WA004				54					
				132771				1					
				136270				2					
				139082				2					
				147603				49					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
Root Cause				FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 2

Work Order ID: 148460

148460

Parent Item: D3713-041

D3713-041

Parent Item Name: Lid Assembly

Start Date: 7/8/2016

Required Date: 7/25/2016

Start Qty: 1.00

Required Qty: 1.00

D3749-1

Manufactured No

100

Each

14.0000

3

3

D3749-1

Hinge Half

**

CC 16-7-25

Location

Loc Qty

Loc Code

WA004

14

102810

14

M304TS0.750W.065

Purchased

No

100

f

1,111.787

31.022

32.65474

M304TS0 750W 065

304 SQ Tube .75x.75x.065W

**

32 16-07-21

Location

Loc Qty

Loc Code

WA004

1111.787362

m132270

35.88

m132924

4.177362

m133412

482

m133757

189.73

m134696

400

M304EX0.75-16F

Purchased

No

110

sf

562.2000

17

17.89474

M304FX0 75-16F

Expanded Metal Flat SS

**

18 16-07-21

Location

Loc Qty

Loc Code

WA004

562.2

M134331

24

M134643

21.7

M134954

516.5

D2258-300

Manufactured

No

160

Each

10.0000

1

D2258-300

Placard

**

16-02-22

Location

Loc Qty

Loc Code

ST004

10

139698

10

21

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Shop Packet Print

Page 2

DQA: _____ Date: _____



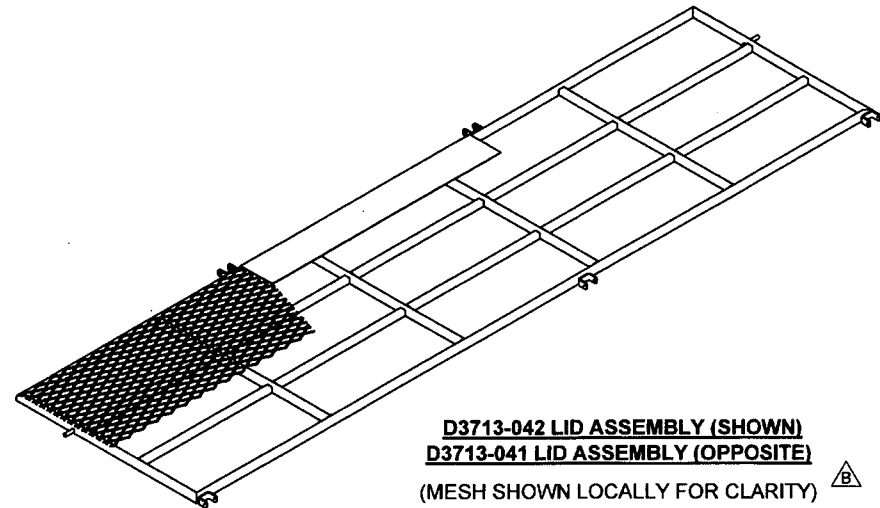
WORK ORDER NON-CONFORMANCE / UPDATE

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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
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Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

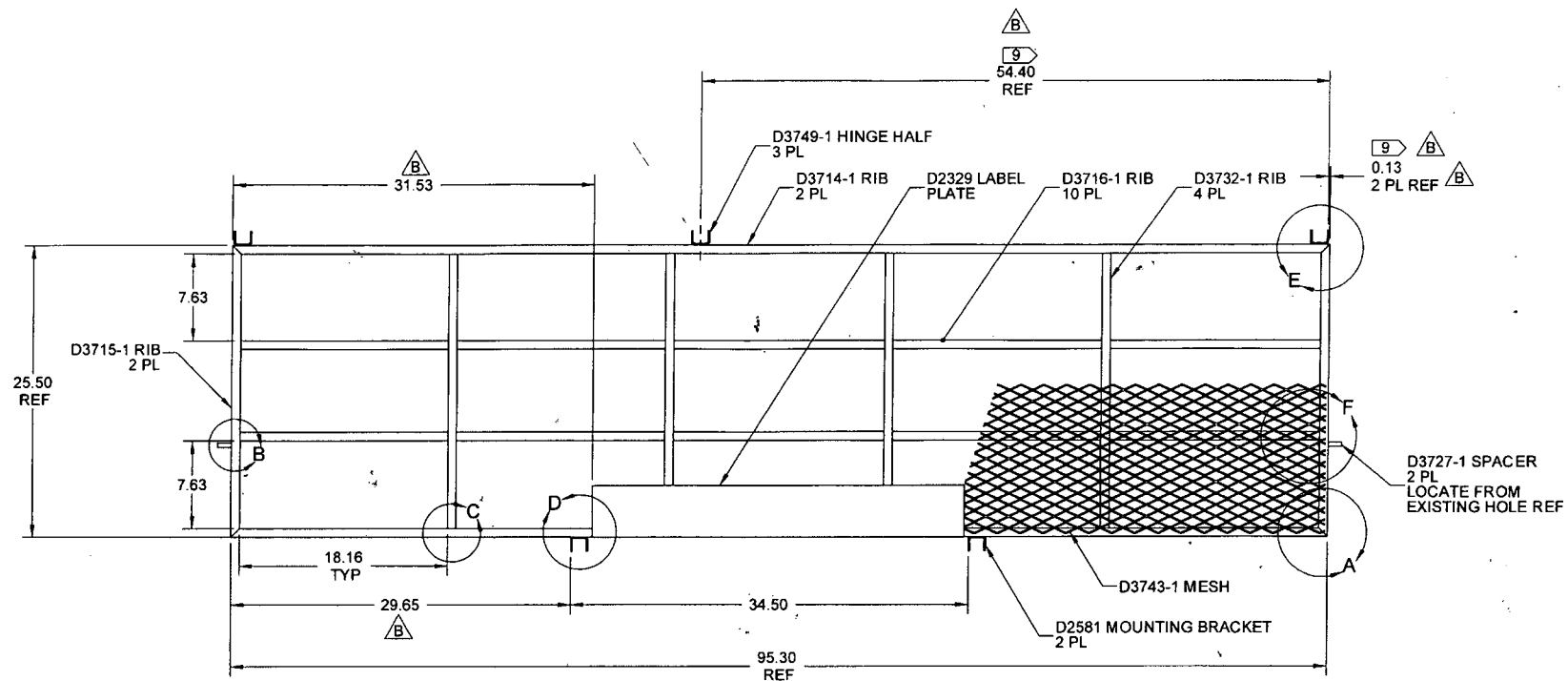
QTY -041	QTY -042	PART NUMBER	DESCRIPTION
X		D3713-041	LID ASSEMBLY
	X	D3713-042	LID ASSEMBLY
2	2	D2327-1	SPACER
1	1	D2329	LABEL PLATE
2	2	D2581	MOUNTING BRACKET
2	2	D3714-1	RIB
2	2	D3715-1	RIB
10	10	D3716-1	RIB
4	4	D3732-1	RIB
1	1	D3743-1	MESH
3	3	D3749-1	HINGE HALF



D3713-042 LID ASSEMBLY (SHOWN)
D3713-041 LID ASSEMBLY (OPPOSITE)
(MESH SHOWN LOCALLY FOR CLARITY)

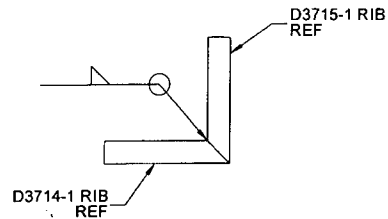
- NOTES:**
- 1) MATERIAL: NONE
 - 2) FINISH: POWDER COAT BLACK SANDEX (4.3.5.7) PER DART QSI 005 4.3
APPLY BLACK ANTI-SKID TO OUTSIDE SURFACE OF MESH PER DART QSI 005 4.4
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: N/A
 - 8) WELDING: PER DART QSI 004
 - 9) CENTER D3749-1 HINGE HALF ON D3748-1 HINGE HALF ON D3712-041/042 BASKET BASE ASSEMBLY

B	SHEET 1 -042 WAS -041: ADDED CORRECT -041 ASSEMBLY, NOTE 8 ADDED. ZONE C2 LID ASSEMBLY WAS D3713-041. WEIGHT WAS 36 lbs. SHEET 2 ZONE B5 LID ASSEMBLY WAS D3713-041. ZONE D6 31.53 DIM WAS 31.64. ZONE D3 54.40 DIM NOW REF. ZONE D2 0.13 REF DIM ADDED ZONE B6 29.65 DIM WAS 28.77. ZONE D3 & D2 FLAG NOTE 9 ADDED.		AJS	08.02.27
A	NEW ISSUE		AJS	08.02.01
REV.	DESCRIPTION		BY	DATE
DESIGN	AJS	DART AEROSPACE LTD		
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA		
CHECKED	CE	DRAWING NO.	REV. B	
MFG. APPR.	IS	D3713	SHEET 1 OF 3	
APPROVED	AP	TITLE	SCALE	
DE APPR.	#	LID ASSEMBLY	NTS	
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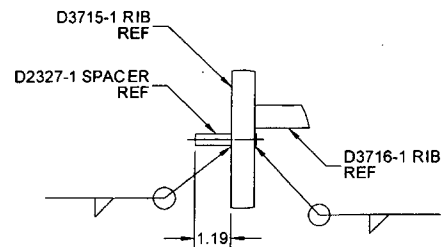


D3713-042 LID ASSEMBLY (SHOWN) 
D3713-041 LID ASSEMBLY (OPPOSITE)
 (MESH SHOWN LOCALLY FOR CLARITY)

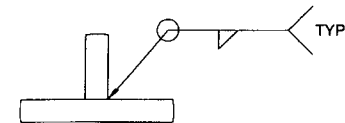
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DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3713	SHEET 2 OF 3
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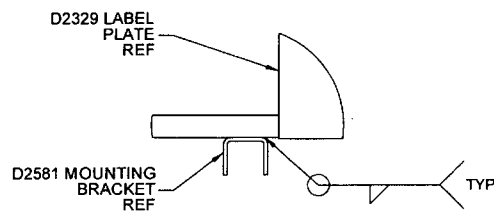
DETAIL A: TYP CORNER WELDS
SCALE 4X
(MESH NOT SHOWN FOR CLARITY)



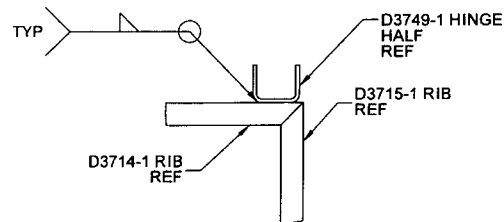
DETAIL B
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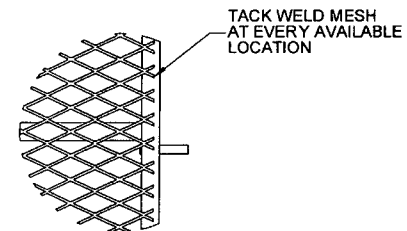
DETAIL C
TYP
SCALE 4X



DETAIL D
SCALE 4X



DETAIL E
SCALE 4X



DETAIL F
SCALE 5X

05.03.17-MP

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MFG. APPR.	ME	D3713	SHEET 3 OF 3
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